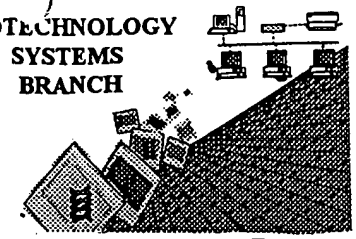
BIOTECHNOLOGY
SYSTEMS
BRANCH



0590
0618

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/955,259A
Source: OIPE
Date Processed by STIC: 7-3-02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>**, **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
   Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary .

ERROR DETECTED **SUGGESTED CORRECTION** **SERIAL NUMBER:** 09/955,259A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____ Wrapped Nucleics / Wrapped Aminos — The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2____ Invalid Line Length — The rules require that a line not exceed 72 characters in length. This includes white spaces.

3____ Misaligned Amino Numbering — The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4____ Non-ASCII — The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5____ Variable Length — Sequence(s)____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____ PatentIn 2.0 "bug" — A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7____ Skipped Sequences (OLD RULES) — Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8____ Skipped Sequences (NEW RULES) — Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9____ Use of n's or Xaa's (NEW RULES) — Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 ✓ Invalid <213> Response — Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 ✓ Use of <220> — Sequence(s) 3 missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12____ PatentIn 2.0 "bug" — Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

Does Not Comply
Corrected Diskette Needed

OIPE

RAW SEQUENCE LISTING DATE: 07/03/2002
PATENT APPLICATION: US/09/955,259A TIME: 14:15:48

Input Set : A:\52071-4.ST25.txt
Output Set: N:\CRF3\07032002\I955259A.raw

```
 3 <110> APPLICANT: Annibali, Nestor
 5 <120> TITLE OF INVENTION: Expression of a Human Insulin Precursor In P. Pastoris
 7 <130> FILE REFERENCE: 52071.4
 9 <140> CURRENT APPLICATION NUMBER: US 09/955,259A
10 <141> CURRENT FILING DATE: 2001-09-12
12 <160> NUMBER OF SEQ ID NOS: 26
14 <170> SOFTWARE: PatentIn version 3.1
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 36
18 <212> TYPE: DNA
19 <213> ORGANISM: Artificial Sequence
21 <220> FEATURE:
22 <223> OTHER INFORMATION: Synthetic Primer
24 <400> SEQUENCE: 1
25 tcacacctgg tggaagctct ctacctagtg tgcggg                              36
28 <210> SEQ ID NO: 2
29 <211> LENGTH: 45
30 <212> TYPE: DNA
31 <213> ORGANISM: Artificial Sequence
33 <220> FEATURE:
34 <223> OTHER INFORMATION: Synthetic Primer
36 <400> SEQUENCE: 2
37 ggtcttgggt gtgtagaaga agcctcgttc cccgcacact aggta                     45
40 <210> SEQ ID NO: 3
41 <211> LENGTH: 39
42 <212> TYPE: DNA
43 <213> ORGANISM: Artificial Sequence
45 <220> FEATURE:
46 <223> OTHER INFORMATION: gctggtacag cattgttcca caatgccacg cttggtcttg ggtgt
48 <400> SEQUENCE: 3
49 tttgtgaacc aacacctgtg cggctcacac ctggtggaa                            39
52 <210> SEQ ID NO: 4
53 <211> LENGTH: 45
54 <212> TYPE: DNA
55 <213> ORGANISM: Artificial Sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: Synthetic Primer
60 <400> SEQUENCE: 4
61 gctggtacag cattgttcca caatgccacg cttggtcttg ggtgt                     45
64 <210> SEQ ID NO: 5
65 <211> LENGTH: 52
66 <212> TYPE: DNA
67 <213> ORGANISM: Artificial Sequence
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See item # 10 & 11 on ERROR Summary Sheet

RAW SEQUENCE LISTING DATE: 07/03/2002
PATENT APPLICATION: US/09/955,259A TIME: 14:15:48

Input Set : A:\52071-4.ST25.txt
Output Set: N:\CRF3\07032002\I955259A.raw

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     69 <220> FEATURE:
     70 <223> OTHER INFORMATION: Synthetic Primer
     72 <400> SEQUENCE: 5
     73 ctagttgcag tagttctcca gctggtagag ggagcagatg ctggtacagc at            52
     76 <210> SEQ ID NO: 6
     77 <211> LENGTH: 162
     78 <212> TYPE: DNA
     79 <213> ORGANISM: Artificial Sequence
     81 <220> FEATURE:
     82 <223> OTHER INFORMATION: complete synthetic insulin precursor obtained by PCR using
human
     83       insulin sequence as original source
     85 <400> SEQUENCE: 6
     86 tttgtgaacc aacacctgtg cggctcacac ctggtggaag ctctctacct agtgtgcggg     60
     88 gaacgaggct tcttctacac acccaagacc aagcgtggca ttgtggaaca atgctgtacc    120
     90 agcatctgct ccctctacca gctggagaac tactgcaact ag                      162
     93 <210> SEQ ID NO: 7
     94 <211> LENGTH: 50
     95 <212> TYPE: DNA
     96 <213> ORGANISM: Artificial Sequence
     98 <220> FEATURE:
     99 <223> OTHER INFORMATION: Synthetic Primer
    101 <400> SEQUENCE: 7
    102 acttggttga agctttgtac ttggtttgtg gtgaaagagg tttcttctac              50
    105 <210> SEQ ID NO: 8
    106 <211> LENGTH: 50
    107 <212> TYPE: DNA
    108 <213> ORGANISM: Artificial Sequence
    110 <220> FEATURE:
    111 <223> OTHER INFORMATION: Synthetic Primer
    113 <400> SEQUENCE: 8
    114 agaagtacaa cattgttcaa cgatacctct cttagtcttt ggagtgtaga              50
    117 <210> SEQ ID NO: 9
    118 <211> LENGTH: 33
    119 <212> TYPE: DNA
    120 <213> ORGANISM: Artificial Sequence
    122 <220> FEATURE:
    123 <223> OTHER INFORMATION: Synthetic Primer
    125 <400> SEQUENCE: 9
    126 acacttgtgt ggttctcact tggttgaagc ttt                               33
    129 <210> SEQ ID NO: 10
    130 <211> LENGTH: 66
    131 <212> TYPE: DNA
    132 <213> ORGANISM: Artificial Sequence
    134 <220> FEATURE:
    135 <223> OTHER INFORMATION: Synthetic Primer
    137 <400> SEQUENCE: 10
    138 ttactcgagt tagttacagt agttttccaa ttggtacaaa gaacagatag aagtacaaca     60
    140 ttgttc                                                            66
    143 <210> SEQ ID NO: 11
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RAW SEQUENCE LISTING DATE: 07/03/2002
PATENT APPLICATION: US/09/955,259A TIME: 14:15:48

Input Set : A:\52071-4.ST25.txt
Output Set: N:\CRF3\07032002\I955259A.raw

144 <211> LENGTH: 36
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Synthetic Primer
151 <400> SEQUENCE: 11
152 ccgctcgaga agagatttgt taaccaacac ttgtgt 36
155 <210> SEQ ID NO: 12
156 <211> LENGTH: 162
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: synthetic insulin precursor, obtained by PCR using human insulin
162 sequence as original source
164 <400> SEQUENCE: 12
165 tttgttaacc aacacttgtg tggttctcac ttggttgaag ctttgtactt ggtttgtggt 60
167 gaaagaggtt tcttctacac tccaaagact aagagaggta tcgttgaaca atgttgtact 120
169 tctatctgtt ctttgtacca attggaaaac tactgtaact aa 162
172 <210> SEQ ID NO: 13
173 <211> LENGTH: 56
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Synthetic Primer
180 <400> SEQUENCE: 13
181 cgcggatcca aaccatgaga ttcccatcta tcttcactgc tgttttgttc gctgct 56
184 <210> SEQ ID NO: 14
185 <211> LENGTH: 68
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: Synthetic Primer
192 <400> SEQUENCE: 14
193 gttttgttcg ctgcttcttc tgctttggct gctcctgtta acactactac tgaagacgaa 60
195 actgctca 68
198 <210> SEQ ID NO: 15
199 <211> LENGTH: 71
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Synthetic Primer
206 <400> SEQUENCE: 15
207 acgtcgaagt caccttccaa gtcagagtaa ccgataaccg cttcagctgg gatttgagca 60
209 gtttcgtctt c 71
212 <210> SEQ ID NO: 16
213 <211> LENGTH: 66
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:

RAW SEQUENCE LISTING DATE: 07/03/2002
PATENT APPLICATION: US/09/955,259A TIME: 14:15:48

Input Set : A:\52071-4.ST25.txt
Output Set: N:\CRF3\07032002\I955259A.raw

218 <223> OTHER INFORMATION: Synthetic Primer
220 <400> SEQUENCE: 16
221 gatgaacaac aaaccattat tagtagagtt agagaaaggc aaaacagcaa cgtcgaagtc 60
223 accttc 66
226 <210> SEQ ID NO: 17
227 <211> LENGTH: 72
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: Synthetic Primer
234 <400> SEQUENCE: 17
235 ccgctcgaga gaaacaccct cttccttagc agcgatagaa gcgatagtag tgttgatgaa 60
237 caacaaacca tt 72
240 <210> SEQ ID NO: 18
241 <211> LENGTH: 267
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: synthetic sequence of alpha factor from S. cerevisiae, obtained b
247 y PCR
249 <400> SEQUENCE: 18
250 atgagattcc catctatctt cactgctgtt ttgttcgctg cttcttctgc tttggctgct 60
252 cctgttaaca ctactactga agacgaaact gctcaaatcc cagctgaagc ggttatcggt 120
254 tactctgact tggaaggtga cttcgacgtt gctgttttgc ctttctctaa ctctactaat 180
256 aatggtttgt tgttcatcaa cactactatc gcttctatcg ctgctaagga agagggtgtt 240
258 tctctcgaga agagagaggc tgaagca 267
261 <210> SEQ ID NO: 19
262 <211> LENGTH: 44
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Synthetic Primer
269 <400> SEQUENCE: 19
270 ggggatccat atgctcgaga aaagatttgt gaaccaacac ctgt 44
273 <210> SEQ ID NO: 20
274 <211> LENGTH: 32
275 <212> TYPE: DNA
276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Synthetic Primer
281 <400> SEQUENCE: 20
282 ttagaattcc cgggtctagt tgcagtagtt ct 32
285 <210> SEQ ID NO: 21
286 <211> LENGTH: 30
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Synthetic Primer
293 <400> SEQUENCE: 21

RAW SEQUENCE LISTING DATE: 07/03/2002
PATENT APPLICATION: US/09/955,259A TIME: 14:15:48

Input Set : A:\52071-4.ST25.txt
Output Set: N:\CRF3\07032002\I955259A.raw

294 tcactcgagc ggtctagttg cagtagttct 30
297 <210> SEQ ID NO: 22
298 <211> LENGTH: 28
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Synthetic Primer
305 <400> SEQUENCE: 22
306 gtcgtggttt ctcatagtag agtggaca 28
309 <210> SEQ ID NO: 23
310 <211> LENGTH: 18
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Synthetic Primer
317 <400> SEQUENCE: 23
318 ggtcatcact gctccatc 18
321 <210> SEQ ID NO: 24
322 <211> LENGTH: 19
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Synthetic Primer
329 <400> SEQUENCE: 24
330 agcagcacca gtggaagat 19
333 <210> SEQ ID NO: 25
334 <211> LENGTH: 21
335 <212> TYPE: DNA
336 <213> ORGANISM: Artificial Sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: Synthetic Primer
341 <400> SEQUENCE: 25
342 gactggttcc aattgacaag c 21
345 <210> SEQ ID NO: 26
346 <211> LENGTH: 4
347 <212> TYPE: PRT
348 <213> ORGANISM: Saccharomyces cerevisiae
350 <400> SEQUENCE: 26
352 Lys Arg Glu Ala
353 1

VERIFICATION SUMMARY DATE: 07/03/2002
PATENT APPLICATION: US/09/955,259A TIME: 14:15:49

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